

12-15-00

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PTO/SB/05 (08-00)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Please type a plus sign (+) inside this box  Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.UTILITY  
PATENT APPLICATION  
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

|                        |   |
|------------------------|---|
| Attorney Docket No.    | CU-2417 RJS   |
| First Inventor         | Takahiro IJIMA et al  |
| Title                  | INTERCONNECTION SUBSTRATE HAVING<br>METAL COLUMNS COVERED BY A RESIN. |
| Express Mail Label No. | L 698 1782 98   |

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 50 ]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [ Total Sheets 17 ]
5. Oath or Declaration [ Total Pages 4 ]
  - a. ☒ Newly executed (original or copy)
  - b. ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 17 completed)
    - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

## ADDRESS TO:

Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
  - a. ☐ Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies); or
    - ii. ☐ paper
  - c. ☐ Statements verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☒ Other: Appt. Assoc. Atty.

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No.: \_\_\_\_\_

Prior application information:

Examiner \_\_\_\_\_

Group / Art Unit \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 18. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or ☒ Correspondence address below

|         |   |           |               |          |               |
|---------|---|-----------|---------------|----------|---------------|
| Name    | Ladas & Parry                           |           |               |          |               |
| Address | 224 South Michigan Avenue<br>Suite 1200 |           |               |          |               |
| City    | Chicago                                 | State     | Illinois      | Zip Code | 60604         |
| Country | USA                                     | Telephone | (312)427-1300 | Fax      | (312)427-6663 |

|                   |  |                                   |               |
|-------------------|--|-----------------------------------|---------------|
| Name (Print/Type) | Richard J. Streit  | Registration No. (Attorney/Agent) | 25765         |
| Signature         |  |                                   | Date 12/14/00 |

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L 698 178298

PTO/SB/17 (09-00)

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**FEE TRANSMITTAL  
for FY 2001**

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$)

1310.00

**Complete if Known**

Application Number

Filing Date

First Named Inventor

Takahiro IJIMA et al

Examiner Name

Group Art Unit

Attorney Docket No.

CU-2417 RJS

**METHOD OF PAYMENT**

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit  
Account  
Number

12-0400

Deposit  
Account  
Name

Ladas &amp; Parry

- ☒
- Charge Any Additional Fee Required
- 
- Under 37 CFR 1.16 and 1.17

- ☐
- Applicant claims small entity status.
- 
- See 37 CFR 1.27

- 2.
- ☒
- Payment Enclosed:

☒ Check☐ Credit card☐ Money  
Order☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Small Entity

Fee Fee Fee Fee Fee Description  
Code (\$) Code (\$) Code (\$)

|     |     |     |     |                        |      |
|-----|-----|-----|-----|------------------------|------|
| 101 | 710 | 201 | 355 | Utility filing fee     | 710. |
| 106 | 320 | 206 | 160 | Design filing fee      |      |
| 107 | 490 | 207 | 245 | Plant filing fee       |      |
| 108 | 710 | 208 | 355 | Reissue filing fee     |      |
| 114 | 150 | 214 | 75  | Provisional filing fee |      |

SUBTOTAL (1) (\$) 710.

**2. EXTRA CLAIM FEES**

| Total Claims       | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| 14                 | -20** = 0    | 18.            |          |
| 10                 | -3** = 7     | 80.            | 560.     |
| Multiple Dependent |              |                |          |

Large Entity Small Entity

Fee Fee Fee Fee Fee Description  
Code (\$) Code (\$) Code (\$)

|     |     |     |     |  |  |
|-----|-----|-----|-----|--|--|
| 103 | 18  | 203 | 9   | Claims in excess of 20                                     |  |
| 102 | 80  | 202 | 40  | Independent claims in excess of 3                          |  |
| 104 | 270 | 204 | 135 | Multiple dependent claim, if not paid                      |  |
| 109 | 80  | 209 | 40  | ** Reissue independent claims over original patent         |  |
| 110 | 18  | 210 | 9   | ** Reissue claims in excess of 20 and over original patent |  |

SUBTOTAL (2) (\$) 560.

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity Small Entity

Fee Fee Fee Fee  
Code (\$) Code (\$) Code (\$)

Fee Description

Fee Paid

|     |        |     |        |  |     |
|-----|--------|-----|--------|--|-----|
| 105 | 130    | 205 | 65     | Surcharge - late filing fee or oath  |     |
| 127 | 50     | 227 | 25     | Surcharge - late provisional filing fee or cover sheet                     |     |
| 139 | 130    | 139 | 130    | Non-English specification  |     |
| 147 | 2,520  | 147 | 2,520  | For filing a request for ex parte reexamination                            |     |
| 112 | 920*   | 112 | 920*   | Requesting publication of SIR prior to Examiner action                     |     |
| 113 | 1,840* | 113 | 1,840* | Requesting publication of SIR after Examiner action                        |     |
| 115 | 110    | 215 | 55     | Extension for reply within first month                                     |     |
| 116 | 390    | 216 | 195    | Extension for reply within second month                                    |     |
| 117 | 890    | 217 | 445    | Extension for reply within third month                                     |     |
| 118 | 1,390  | 218 | 695    | Extension for reply within fourth month                                    |     |
| 128 | 1,890  | 228 | 945    | Extension for reply within fifth month                                     |     |
| 119 | 310    | 219 | 155    | Notice of Appeal   |     |
| 120 | 310    | 220 | 155    | Filing a brief in support of an appeal                                     |     |
| 121 | 270    | 221 | 135    | Request for oral hearing   |     |
| 138 | 1,510  | 138 | 1,510  | Petition to institute a public use proceeding                              |     |
| 140 | 110    | 240 | 55     | Petition to revive - unavoidable   |     |
| 141 | 1,240  | 241 | 620    | Petition to revive - unintentional   |     |
| 142 | 1,240  | 242 | 620    | Utility issue fee (or reissue)   |     |
| 143 | 440    | 243 | 220    | Design issue fee   |     |
| 144 | 600    | 244 | 300    | Plant issue fee  |     |
| 122 | 130    | 122 | 130    | Petitions to the Commissioner  |     |
| 123 | 50     | 123 | 50     | Petitions related to provisional applications                              |     |
| 126 | 240    | 126 | 240    | Submission of Information Disclosure Stmt                                  |     |
| 581 | 40     | 581 | 40     | Recording each patent assignment per property (times number of properties) | 40. |
| 146 | 710    | 246 | 355    | Filing a submission after final rejection (37 CFR § 1.129(a))              |     |
| 149 | 710    | 249 | 355    | For each additional invention to be examined (37 CFR § 1.129(b))           |     |
| 179 | 710    | 279 | 355    | Request for Continued Examination (RCE)                                    |     |
| 169 | 900    | 169 | 900    | Request for expedited examination of a design application                  |     |

Other fee (specify)

\* Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$) 40.

**SUBMITTED BY**

Name (Print/Type)

Richard J. Streit

Signature

Richard J. Streit

Registration No.  
(if known)

25765

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(312)427-1300

Date

12/14/00

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